

# Operating Systems

## History of OS

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## **What is OS**

- ✓ An operating system is the software that controls the overall operation of a computer.
- ✓ Store and retrieve files
- ✓ Execution of programs
- ✓ Program scheduling
- ✓ Memory management

# History of OS

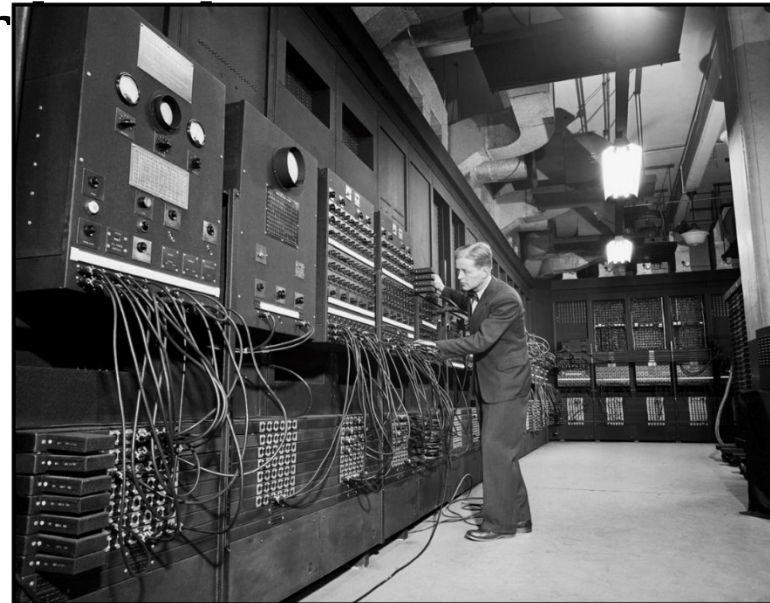
## **Examples of OS**

- ✓ Windows
- ✓ UNIX
  - ✓ Mac OS
  - ✓ Solaris

# History of OS

## Early OS

- ✓ In 1940's and 1950's computer occupied the whole room.
- ✓ Program execution required significant preparations like: mounting magnetic tapes, placing punch cards in card switches



# History of OS

## **Job**

- ✓ Execution of each program called the Job was isolated activity.
- ✓ a machine was shared between multiple users in different time slots.
- ✓ Then OS began as systems for simplifying program setup and streamlining the transition between jobs

# History of OS

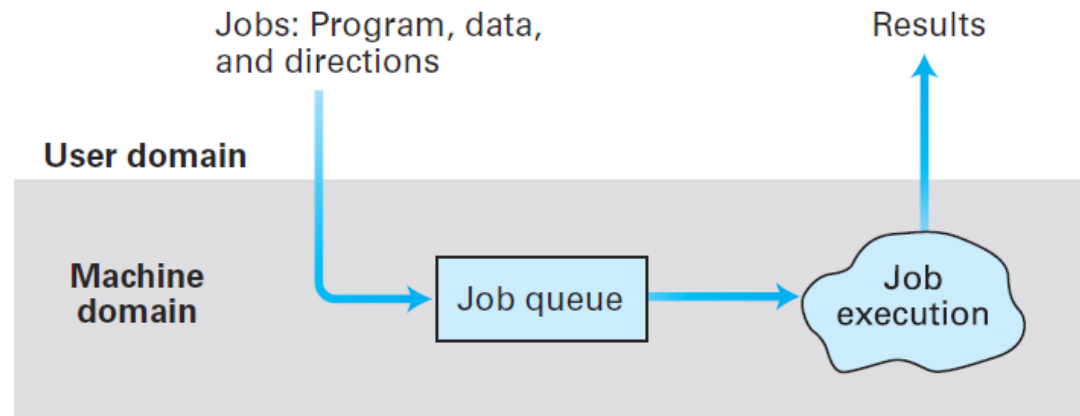
## **Beginning of**

### ✓ **OS**

- ✓ Separation of users and transition.
- ✓ Computer Operator was hired to operate the machine.
- ✓ User submit the data and directions for the program to operator who load the material in mass storage
- ✓ OS was able to read one job after

# History of OS

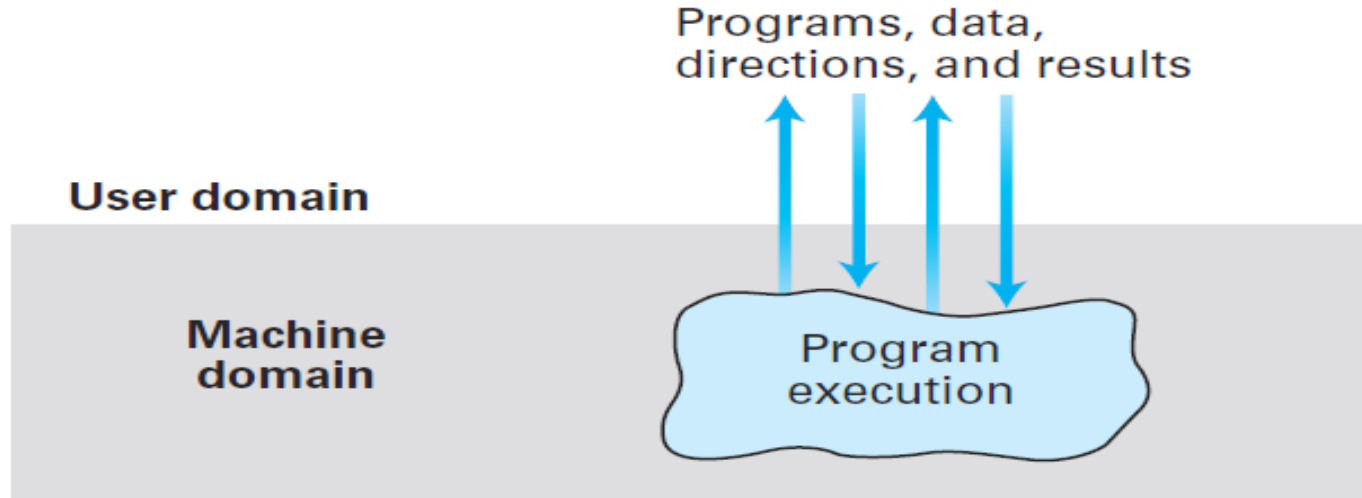
## Batch Processing



- ✓ Each job reside in a queue to be executed on its turn - **First In First Out**.
- ✓ Drawback: Users were not able to interact with their programs.

# History of OS

## Interactive Processing



- ✓ Dialogue with the user through remote terminals.
- ✓ Terminals have just more than the type-writer



# Summary

## **History of OS**

- ✓ Early OS
- ✓ Batch Processing
- ✓ Interactive Processing